IN THE CLAIMS

This listing of claims replaces all prior versions and listings of the claims in the abovereferenced application.

- 1. (Previously Presented) A structure comprising:
 - a semiconductor light emitting device; and
- a substrate comprising a ceramic core and at least one copper layer overlying the core, the at least one copper layer having a thickness of at least 4 mils;

wherein the semiconductor light emitting device is electrically connected to the at least one copper layer and wherein a path from the at least one copper layer to the ceramic core is thermally conductive.

- 2. (Original) The structure of claim 1 wherein the semiconductor light emitting device comprises a III-nitride light emitting layer.
- 3. (Previously Presented) The structure of claim I wherein the core comprises a material selected from the group of Al₂O₃, AlN, alumina, and silicon nitride.
- 4. (Previously Presented) The structure of claim 1 further comprising at least one lead connected to the substrate.
- 5. (Previously Presented) The structure of claim 1 further comprising at least one solder pad connected to the substrate.
- 6. (Previously Presented) The structure of claim 1 further comprising at least one terminated wire connected to the substrate.
- 7. (Original) The structure of claim 1 wherein the at least one copper layer is bonded to the core by a direct copper bond.
- 8. (Original) The structure of claim 1 wherein the at least one copper layer is bonded to the core by an active metal braze.
- 9. (Previously Presented) The structure of claim 1 wherein the at least one copper layer

PATENT LAW GROUP MP 2015 N. FIRST ST. SUITE 223 SAN 1058, CA 97134 (408) 382-0481 FAX (408) 382-0481 has a thickness between 4 mils and about 24 mils.

- 10. (Original) The structure of claim 1 wherein the substrate is a first substrate, the structure further comprising a second substrate disposed between the semiconductor light emitting device and the first substrate.
- 11. (Original) The structure of claim 10 wherein the second substrate comprises at least one metal bonding pad and an insulating layer.
- 12. (Previously Presented) The structure of claim 11 wherein the insulating layer comprises one of AlN, Al₂O₃, and silicon nitride.
- 13. (Original) The structure of claim 10 wherein the second substrate comprises a silicon integrated circuit.
- 14. (Original) The structure of claim 1 further comprising a base connected to the substrate.
- 15. (Original) The structure of claim 1 further comprising a lens disposed over the semiconductor light emitting device.
- 16. (Previously Presented) The structure of claim 1 wherein the at least one copper layer is bonded to the core.
- 17. (Previously Presented) The structure of claim 1 wherein the at least one copper layer is bonded to the core by a process comprising:

forming an oxide coating on a sheet of copper;

placing the oxide coating adjacent to the core; and

heating the oxide coating to form a eutectic melt.

18. (Withdrawn) A method of packaging a semiconductor light emitting device, the method comprising:

providing a substrate having a ceramic core and at least one copper layer, the at least one copper layer having a thickness of at least 4 mils; and

FATENT LAW GROUP IAP 2013 N. FIRST ST. SUITE 221 SAN JOSE, CA 93134 (409) 382-0480 FAX (409) 382-0481

- 19. (Withdrawn) The method of claim 18 further comprising attaching at least one lead to the at least one copper layer.
- 20. (Withdrawn) The method of claim 18 wherein the substrate is a first substrate, the method further comprising:

mounting the semiconductor light emitting device on a second substrate; and after mounting the semiconductor light emitting device on the second substrate, mounting the second substrate on the first substrate.

- 21. (Withdrawn) The method of claim 18 further comprising:
 providing a lens over the semiconductor light emitting device.
- 22. (Withdrawn) The method of claim 18 further comprising bonding the copper layer to the core by:

forming an oxide coating on a sheet of copper;

placing the oxide coating adjacent to the core; and
heating the oxide coating to form a cutectic melt.

- 23. (Previously Presented) The structure of claim 1 wherein the substrate has a thermal conductivity of at least 24 W/m K.
- 24. (Previously Presented) The structure of claim 1 wherein the at least one copper layer is in direct contact with the ceramic core.

FATENT LAW GROUP 12.P 2635 N. FIRST ST. SUITE 223 5AN JUSE. CA 93124 (408) 382-0480 FAX 1406) 382-0481